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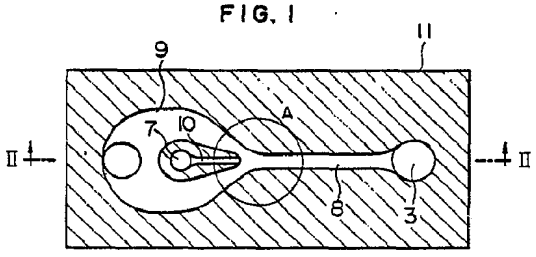
(54) Flow-cell device.

(57) A sheath flow type flow-cell device for Flow-Cytometer comprises a first inlet (6) for sheath fluid, a flow passage (9) communicated with the first inlet and contracted toward downstream, the flow passage having a substantially rectangular cross section, a straight capillary flow passage (8) connected to the flow passage at downstream thereof, the capillary flow passage having a substantially rectangular cross section, a second inlet (7) for sample fluid, a nozzle (10) communicated with the second inlet and opened within the flow pasage in the same direction as the flow direction of the straight capillary flow passage, a discharge port (3) provided at a terminal end of the straight capillary flow passage, and flow regulating means (8a, 8b; 19; 20) for regulating the flow of the sheath fluid in the straight capillary flow passage to be a laminar flow having a gradient of flow velocity.

FIG. 1



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EUROPEAN SEARCH REPORT

Application Number

EP 88 10 6306

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y,D	THE JOURNAL OF HISTOCHEMISTRY AND CYTOCHEMISTRY vol. 25, no. 7, 1977, pages 774-780; V. KACHEL et al.: "Uniform Lateral Orientation, caused by flow forces, of flat particles in flow through systems"* whole document *	1	G 01 N 21/05 G 01 N 15/14
Y	US-A-3 893 766 (W.R. HOGG) * column 2, lines 57 - column 3, line 40 *	1	
A	US-A-4 352 558 (W. EISERT) * claim 1; figure 1 *	1,8	
A	REVIEW OF SCIENTIFIC INSTRUMENTS vol. 55, no. 9, September 1984, pages 1375-1400, New York, US; J.A. STEINKAMP: "Flow cytometry" * figure 5; page 1380, paragraph D *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			G 01 N

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
BERLIN	23-02-1990	BRISON O.P.

CATEGORY OF CITED DOCUMENTS

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